

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
 US Department of Commerce
 United States Patent and Trademark
 Office, PCT
 2011 South Clark Place Room
 CP2/5C24
 Arlington, VA 22202
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 07 June 2001 (07.06.01)	
International application No. PCT/IB00/00883	Applicant's or agent's file reference JM/P206042WO
International filing date (day/month/year) 29 June 2000 (29.06.00)	Priority date (day/month/year) 29 June 1999 (29.06.99)
Applicant RAMAN, Aroon et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

31 January 2001 (31.01.01)

☐ in a notice effecting later election filed with the International Bureau on:
2. The election ☐ was
☒ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Zakaria EL KHODARY
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

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Date of mailing (day/month/year) 08 June 2001 (08.06.01)	
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International filing date (day/month/year) 29 June 2000 (29.06.00)	Priority date (day/month/year) 29 June 1999 (29.06.99)
Applicant RAMAN, Aroon et al	

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 31 January 2001 (31.01.01)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

CORRECTED
 VERSION

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Zakaria EL KHODARY
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rule 43 and 44)

Applicant's or agent's file reference JM/P206042WO	FOR FURTHER see Notification of Transmittal of International Search Report ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below	
International application No. PCT/IB00/00883	International filing date (day/month/year) 29 June 2000(29.06.00)	(Earliest) Priority date (day/month/year) 29 June 1999(29.06.99)
Applicant RAMAN Boards Limited RAMAN, Aroon		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II)

4. With regard to the title,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by text is approved as submitted by the applicant.

the text this Authority to read as follows:

With regard to the abstract, ☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 1

- ☐ as suggested by the applicant.
- ☒ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.
- ☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB00/00883

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ A01N25/18, A01M13/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A01N25/18,25/20,25/34,25/00;A01M13/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CHINESE INVENTION AND UTILITY 1985-2000

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI PAJ EPODOC CNPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
N	CN 2226819Y,(WU Zhixiong) 15 May 1996(15.05 1996),See the whole document	1,2,5-7,20,22-25
N	CN1173968A,(HE Zhaokun) 25 February 1998(25.02 1998),See the whole document	1,2,20,22-25
N	CN1173969A,(HE Zhaokun) 25 February 1998(25.02 1998),See the whole document	1,2,20,22-25
A		11-13,21
N	CN2356495Y,(SHAO Xiaochun) 05 January 2000(05.01 2000),See the whole document	1,2,20,22-25
N	CN2057055U,(LI Wei) 16 May 1990(16.05 1990), See the whole document	1,2,20,22-25
N	GB2 139 498A,(Family Products Sendirian Berhad)14.nov 1984(14.11 1984), See the whole document	1,2,20,22-25
A	CN1076828A,(BAYER AG) 06 October 1993(06.10 1983), See the whole document	11,21

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "I" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
29.November.2000(29.11.00)

Date of mailing of the international search report
14 DEC 2000 (14.12.00)

Name and mailing address of the ISA/CN
6 Xitucheng Rd., Jimen Bridge, Haidian District,
100088 Beijing, China
Facsimile No. 86-10-62019451

Authorized officer

Telephone No. 86-10-62093741

WANG JING



INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/IB00/00883


Patent document Cited in search report	Publish date	Patent family Member(s)	Publish date
CN 2226819Y	15-05-1996	None	
CN1173968A	25-02-1998	None	
CN1173969A	25-02-1998	None	
CN2356495Y	05-01-2000	None	
CN2057055U	16-05-1990	None	
GB2 139 498A	14-11-1984	SG53688 G G	27-01-1989
		PH25753 A	18-11-1983
		HK106988 A	06-01-1989
CN1076828A	06-10-1993	ITM1930516 A	27-09-1993
		MX9301403 A	01-09-1993
		US5447713 A	05-09-1995
		ZA9302158 A	23-11-1992
		DE4209921 A	30-03-1992
		BR9301329 A	05-10-1992
		JP6116105 A	26-04-1994

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IP01003	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No PCT/IB00/00883	International filing date (day/month/year) 29 June 2000(29.06.2000)	Priority date (day/month/year) 29 June 1999(29.06.1999)
International Patent Classification (IPC) or national classification and IPC A01N25/18, A01M13/00		
Applicant RAMAN Boards Limited et al		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ Sheets.</p>		
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input checked="" type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application.</p>		
Date of submission of the demand 24. Oct. 01 (29. 10. 01)	Date of completion of this report 24. Sep. 2001(24. 09. 01)	
Name and mailing address of the IPEA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451	Authorized officer WAN  Telephone No. 86-10-62093741	

Form PCT/IPEA/409(cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/IB00/00883

I. Basis of the report

1. With regard to the elements of the international application:

☐ the international application as originally filed☒ the description:

pages _____, as originally filed

pages _____, filed with the demand

Pages 1-15 _____, filed with the letter of 17 August 2000 (17.08.2000)

☒ the claims:

Nos _____, as originally file

Nos 1-25 _____, as amended (together with any statement) under Article 19

Nos _____, filed with the demand

Nos _____, filed with the letter of _____

☒ the drawings:

sheets/fig 1,3-5 _____, as originally filed

sheets/fig _____, filed with the demand

sheets/fig 2(a) 2(b) _____, filed with the letter of 17 August 2000 (17.08.2000)

☐ the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. with regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequences disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages _____☐ the claims Nos. _____☐ the drawings, sheets/fig _____5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/IB00/00883

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement:

Novelty (N)

Claims 1-25 YES

Claims _____ NO

Inventive step (IS)

Claims 11-19, 21 YESClaims 1-10, 20 NO

Industrial applicability (IA)

Claims 1-25 YES

Claims _____ NO

2. Citations and explanations (Rule 70.7)

The present application does not fulfill the criterion set forth in Article 33(3) PCT, because the subject-matters of claims 1-7, 20 do not involve an inventive step (Article 33(3) PCT).

Document CN-2356495Y discloses (see the whole document) a combustible paperboard strip and at least one substance toxic to insert (see the claim 1, description Page 2 and Fig. 1). A perfume has been disclosed in the document CN 1173968A (see the description P3). It is obvious for the person skilled in the art to combine the features disclosed in the two documents to obtain the claim 1. The claim 1 therefore does not appear to involve an inventive step (Article 33(3) PCT).

The features of the dependent claims 2 and 20 have been disclosed in the document CN 2356495Y (see the claim 1, description P2 and Fig. 1); the features of the dependent claims 3 and 4 have been disclosed in the document CN 1173968A (see the abstract, claim 1); the features of the dependent claims 5 and 6 have been disclosed in document CN 2226819Y (see the abstract); the features of the dependent claims 7-10 are obvious to the person skilled in the art. The subject-matters of claims 2-10 and 20 therefore do not involve an inventive step (Article 33(3) PCT).

Claims 22-25 are not discussed: they contain a reference to the description or drawings. According to the Rule 6.2(a) PCT, claims should not contain such references except where it is necessary. Such is not, however, the here. The claims 22-25 should thus either be reformulated or be deleted.

Claims 11-19 and 21 contain a great number of new and inventive features referring to the claimed method, these claims therefore meet the criteria set out in PCT Article 33(2) and (3).

Claims 1-25 all meet the criterion set out in PCT Article 33(4),

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB00/00883

VI. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Reference signs should been inserted in the correct place of the drawings to increase their intelligibility.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 January 2001 (04.01.2001)

PCT

(10) International Publication Number
WO 01/00105 A2

(51) International Patent Classification⁷: **A61D**

(21) International Application Number: **PCT/IB00/00883**

(22) International Filing Date: **29 June 2000 (29.06.2000)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
9915085.6 **29 June 1999 (29.06.1999) GB**

(71) Applicant (for all designated States except US): **RAMAN BOARDS LIMITED [IN/IN]; Mysore Ooty Road, Than-davapura 571 325, Mysore District, Karnataka (IN).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RAMAN, Aroon [IN/IN]; 100 5th Main, Paramahansa Road, Yadavagiri, Mysore 570 020 (IN). RAJA, K., S. [IN/IN]; 2466 17th Main, 6th Cross, Vijayanagar II Stage, Mysore (IN). REMA, B. [IN/IN]; 2466 17th Main, 6th Cross, Vijayana-gar II Stage, Mysore (IN). NATESH, G., K. [IN/IN]; 284 Saphagiri, E Block, Vijayanagar II Stage, Mysore 057 017 (IN). KUMAR, Satheesh [IN/IN]; 2nd Cross,**

Leelavati Extension, Door 77, Maddur Taluk, Mandya District, Karnataka 571 428 (IN). **MANJUNATHA, S. [IN/IN]; Door 5221 Thomas Layout, Behind KHB Colony, Nanjanjud, Karnataka 571 301 (IN).**

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **A SUBSTANCE DELIVERY DEVICE**

(57) Abstract: A device for delivering a substance toxic to insects or a perfume is based on a combustible low density paperboard strip. The paperboard strip can include a flexible backing sheet for supporting the combustible paperboard strip, especially made from paper which has been treated with a flame retardant. The device can be cut as a coil so that it burns along a helical path.

WO 01/00105 A2



Published:

— *With international search report.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

26 April 2001

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB00/00883

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ A01N25/18, A01M13/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A01N25/18,25/20,25/34,25/00;A01M13/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CHINESE INVENTION AND UTILITY 1985-2000

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI PAJ EPODOC CNPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	CN1173969A,(HE Zhaokun) 25 February 1998(25.02 1998),See the whole document	1,2,20,22-25
A		11-13,21
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X	CN2057055U,(LI Wei) 16 May 1990(16.05 1990), See the whole document	1,2,20,22-25
X	GB2 139 498A,(Family Products Sendirian Berhad)14.nov 1984(14.11 1984), See the whole document	1,2,20,22-25
A	CN1076828A,(BAYER AG) 06 October 1993(06.10 1983), See the whole document	11,21

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- "L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
29.November.2000(29.11.00)

Date of mailing of the international search report
14 DEC 2000 (14.12.00)

Name and mailing address of the ISA/CN
6 Xitucheng Rd., Jimen Bridge, Haidian District,
100088 Beijing, China
Facsimile No. 86-10-62019451

Authorized officer

Telephone No. 86-10-62093741

WANG Jing



INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/IB00/00883

Patent document Cited in search report	Publish date	Patent family Member(s)	Publish date
CN 2226819Y	15-05-1996	None	
CN1173968A	25-02-1998	None	
CN1173969A	25-02-1998	None	
CN2356495Y	05-01-2000	None	
CN2057055U	16-05-1990	None	
GB2 139 498A	14-11-1984	SG53688 G G	27-01-1989
		PH25753 A	18-11-1983
		HK106988 A	06-01-1989
CN1076828A	06-10-1993	ITM1930516 A	27-09-1993
		MX9301403 A	01-09-1993
		US5447713 A	05-09-1995
		ZA9302158 A	23-11-1992
		DE4209921 A	30-03-1992
		BR9301329 A	05-10-1992
		JP6116105 A	26-04-1994